

STATEMENT

OF

WORK

(SOW)

**FOR THE IROAN OF
POWER UNIT, FRONT, 12 ½ T 4x4,
LOGISTICS VEHICLE SYSTEM
MK-48**

NSN 2320-01-177-5167

MK-48

CONTROL NR: SOW-03-835-1-08780A-2/1

EFFECTIVE DATE: 1 OCT 2001

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STATEMENT OF WORK FOR THE
Power Unit, Front, 12 ½ T 4x4, Logistics Vehicle System (LVS) MK-48
Inspect Repair Only As Necessary (IROAN)

1.0 SCOPE. This Statement of Work (SOW), along with Rebuild Standard RS 08780A/B-50, with change 1, establishes and sets forth tasks and identifies the work efforts that shall be performed by the contractor in the IROAN effort of the LVS MK48. These documents contain requirements to restore the LVS MK48 to Condition Code "A." Condition Code A is defined as "serviceable/issuable without qualification, new, used, repaired, or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction. National Stock Number 2320-01-177-5167 shall be known as the LVS MK48.

1.1 Background. IROAN is defined as "That maintenance technique which determines the Minimum repairs necessary to restore equipment components or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

2.0 APPLICABLE DOCUMENTS. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the issue of Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 Military Standards

MIL-STD-129	DoD Standard Practice for Military Markings
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Military Standards (For Guidance Only)

<i>MIL-STD-973</i>	<i>Configuration Management</i>
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2.2 Other Government Documents and Publications. The issues of those documents cited below shall be used.

MI-08780A-25/1	Installation of Blackout Drive Light
MI-08780A-35/2	M16 Rifle Mount Kit
MI-08780A-35/3	Manual Engine Shutdown Cable
MI-11240-35/20	Replacement of the Turn Signal Control Arm
TI-08780A-25/1	Installation of Solargizer
RS 08780A/B-50	Depot Maintenance Manual LVS Power Unit MK48

With change 1

TM-3080-50	Corrosion Prevention Control
ATPD 2241	Vehicles, Wheeled: Preparation for Shipment and Storage of.
DOD 4000.25-1-M	MILSTRIP Manual
NAVICPINST 4491.2A	Instruction Requisitioning of Contractor Furnished Materiel from the Federal Supply System
TM-08780-CD	Logistics Vehicle System
Allison Transmission Service Manual/HT 700 Series (Latest Edition when this SOW is effective)	
Detroit Diesel 92, Series Service Manual (2 book Set) (Latest Edition when this SOW is effective)	
A052499001DW	Accumulator
A051300003DW	Replacement of Hydraulic Hose Assemblies
A051399001DW	Elimination of Installing Battery Post Shield
A040599001DW	Articulation Joint Assembly
A033199002DW	Spring and Seat Assembly
A033199003DW	Epoxy Coating of Fuel Tanks
A033199001DW	Epoxy Coating of Air Reservoirs
A030399001DW	Blasting of PEI's Components and sub-assemblies

Military Handbooks (For Guidance)

MIL-HDBK-61 Configuration Management Guidance

- 2.3 **Industry Standards** ANSI/ISO/ASQC Q9002-1994 Quality Systems-Model for Quality Assurance in Production, Installation, and Servicing

*Industry Standards (For Guidance)**ANSI/EIA-649**National Consensus Standard for Configuration Management*

Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, Building 4D, 700 Robbins Avenue, Philadelphia, PA. 19111-5094, Telephone (215) 697-2179 or DSN 442-2179, or <http://www.dodssp.daps.mil>. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Commander, (Code 891) Marine Corps Logistics Bases, 814 Radford Blvd., Albany, Georgia 31704-1128, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings and Waivers, if applicable, shall be obtained from Life Cycle Management Center, Attn: Code 851-3, 814 Radford Blvd. STE 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6410 or DSN 567-6410.

3.0 Requirements

3.1 General Tasks. In fulfilling the specified requirements, the contractor shall:

- a. Provide materials, labor, facilities, repair parts, and missing parts necessary to inspect, diagnose, restore, and test the LVS MK48. Upon completion of IROAN, repaired vehicles shall be Condition Code "A."
- b. Provide all tools and test equipment required to test, inspect, and calibrate the LVS MK48.
- c. Conduct final on-site testing for witness by an MCLB, Albany, Georgia, representative (Code 835).
- d. Be responsible for all structural, electrical and mechanical requirements associated with the restoration of the LVS MK48 using TM-08780-CD as guidance.
- e. Conduct a rebuild of the LVS MK48 transmission using Allison Transmission Service Manual/HT 700 Series as guidance.
- f. Conduct a rebuild of the LVS MK48 transfer.
- g. Conduct a rebuild of the LVS MK48 engine using Detroit Diesel 92, Series Service Manual (2 book set).
- h. Conduct 100 percent replacement of the LVS MK48 radiator core.
- i. Conduct 100 percent replacement of hydraulic hoses.
- j. Provide 100 percent replacement of brake linings and brake springs.

- k. Conduct 100 percent cab replacement.
- l. Be responsible for converting the “Deadman Axle” from the old configuration to the new configuration if not previously converted. The new Deadman axle has a solid shaft installed.
- m. Be responsible for all corrosion prevention and control in accordance with the latest TM-3080-50.

3.2 Detailed Tasks. The following tasks describe the different phases for IROAN of the LVS MK48:

3.2.1 Phase I – Pre-Induction. A pre-induction inspection analysis shall be performed for each LVS MK48 to determine extent of work and parts required in accordance with RS 08780A/B-50, paragraph 2-1.f. If it is determined that the cost of repair exceeds the standard unit price or acquisition/replacement cost as imposed by current Marine Corps directives or for any other reason, the contractor facility rejects an IROAN candidate, the government shall be provided by the contractor facility, a completed copy of the Initial Inspection Checklist located in Table 2-1 of RS 08780A/B-50 to include a cost estimate and a request for specific instructions to MCLBA (Code 835) in accordance with Section 4.0 of this SOW. The intent of this clause is to preclude the arbitrary rejection of “IROAN” candidates by the contractor based solely on cost criteria directed by current Marine Corps directives. MCLBA (Code 835) retains the right to make the final decision to restore the end item to a serviceable (condition code A) asset in the most expeditious manner to enhance Marine Corps readiness. Those items requiring 100 % rebuild in Section 3.0 shall not be subject to a pre-induction inspection analysis.

3.2.2 Phase II – IROAN. After pre-induction tests and inspections have been completed, repair of the LVS MK48 shall be accomplished in accordance with this SOW and RS 08780A/B-50 at the contractor’s facility. Deficiencies noted on the Initial Inspection Checklist during Phase I shall be repaired/replaced.

a. Data plate. LVS MK48 shall have an IROAN data plate located on the driver’s side door next to the original manufacturer’s data plate. This plate (refer to Figure 1) shall be constructed of metal and is to be attached after the vehicle has completed the IROAN cycle. The data plate shall contain the following information:

VEH. SER. NO _____ DATE _____
 OVERHAULED IN ACCORDANCE WITH INSPECT AND REPAIR ONLY AS
 NECESSARY (IROAN) CONTAINED IN SOW-02-835-1-08780A-2/1 DATED
1 OCTOBER 2001

ODOMETER READING AT TIME OF
 IROAN _____

CONTRACTOR _____

(Figure 1)

NOTE: Odometers on LVS MK48's repaired under the provisions of this SOW shall not be reset to zero.

b. Hardware

(1) Replace broken, unserviceable, and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, etc., in accordance with the LVS MK48 RS 08780A/B-50. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

(4) The contractor is authorized to fabricate "by sample" any item/part for the LVS MK-48, which an Engineering Drawing does not exist or for any other reason the government may approve. The hydraulic hoses and the frame horns are acceptable items for this method at this time.

c. Application of Modification Instruction (MI's) and Technical Instructions (TI). The following MI's shall be applied during this phase of the IROAN process: MI-08780A-25/1, MI-08780A-35/2, MI-11240-35/20 & MI-08780A-35/3 and TI-08780A-25/1.

3.2.3 Phase III – Inspection, Testing, and Acceptance.

a. Inspection, Testing and Acceptance of the LVS MK48 shall be conducted in accordance with the Road Test and Final Inspection Checklist located in Table 2-4 of RS 08780A/B-50. This completed document shall be provided in accordance with Section 4.0 of this SOW. The Road Test shall be conducted under full load (22.5 Tons).

b. The contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are available to complete the final acceptance. Acceptance tests shall be held at the contractor's facility. MCLB, Albany, Georgia, representatives (Code 835) shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be cleared of all equipment parts, components, etc., not required for testing.

c. The contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCLB Albany, Georgia, (Code 835) may require the contractor to repeat tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. Acceptance testing on all LVS MK48 vehicles under the provisions of this SOW shall be accomplished in accordance with RS 08780A/B-50.

3.2.4 Packaging, Handling, Storage and Transportation (PHS&T)

a. The contractor shall be responsible for preservation and packaging of items being repaired under the terms of this statement of work. Items being scheduled for shipment shall be in accordance with the level A requirements of ATPD 2241.

b. Markings shall be in accordance with MIL-STD-129.

c. The Marine Corps will provide the contractor with the delivery destination of the repaired equipment (Normally for the LVS, delivery will be to stock). The Weapon System Manager shall be responsible for arranging for shipment (from stock) to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.

3.3 Configuration Control. *The contractor shall apply configuration control procedures to established configuration items. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request For Deviation. MIL-HDBK-61 (paragraph 4.3 and Table 4-9) and ANSI/EIA-649 (paragraph 5.3.4) provide guidance for preparing this configuration control document.*

3.3.1 The following Waivers have been approved for this IROAN effort.

- a. A052499001DW Accumulator
- b. A051399003DW Replacement of Hydraulic Hose Assemblies
- c. A051399001DW Elimination of Installing Battery Post Shield
- d. A040599001DW Articulation Joint Assembly
- e. A033199002DW Spring and Seat Assembly
- f. A033199003DW Epoxy Coating of Fuel Tanks
- g. A033199001DW Epoxy Coating of Air Reservoirs
- h. A030399001DW Blasting of PEI's Components, and sub-assemblies

3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). GFE is government owned equipment authorized by contract for use by a commercial/Government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into the product being manufactured under a contract/statement of work. In the event the Marine Corps does have GFE/GFM requirements the Management Control Activity (MCA/Code 827-2), Marine Corps Logistics Bases, Albany, Georgia, will coordinate required GFE and will maintain a central control on Marine Corps assets in the Contractor's possession. The MCA will forward a GFE Accountability agreement to the Contractor Facility for signature to establish a chain of custody and property responsibilities for Marine Corps assets.

3.5 Contractor Furnished Materiel (CFM). The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). DOD 4000.25-1-M, (MILSTRIP) chapter 11 authorizes contractors to requisition through the DOD Supply System.

3.6 Quality Assurance Provisions. The contractor shall provide and maintain a Quality System that as a minimum adheres to the requirement of ANSI/ISO/ASQC Q9002-1994, Quality System Model for Quality Assurance in Production, Installation, and Servicing. Performance of the contractor and the quality of work delivered, materiel provided, and documents written shall be subject to review and inspection by MCLB, (Code 835) Albany representatives during work performance at any work location. Authorized MCLB (Code 835), Albany, Georgia, representatives shall be permitted to observe the work/task accomplishment or to conduct inspections during working hours. Inspection by MCLB, (Code 835) Albany, Georgia, representatives, of test plans and materials furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet work requirements which may be disclosed prior to final acceptance. Failure of the contractor to promptly correct deficiencies discovered shall be reason for suspension of acceptance until corrective action has been accomplished. The contractor shall have in place documented procedures and standards for inspection requirements and the contractor's work shall be subject to reviews and inspections for compliance with these procedures and standards by MCLB, (Code 835) Albany, Georgia representatives. Noncompliance with procedures resulting in degraded quality of work may result in a stop-work order requiring action by the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face work termination. Notwithstanding such MCLB, (Code 835) Albany, Georgia, representative inspection, it shall be the contractor's responsibility to ensure that the system meets the performance requirements delineated and addressed in this SOW.

3.7 Rejection. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCLB, (Code 835) Albany, Georgia. The contractor shall, at no additional cost to MCLB, Albany, Georgia, provide the following:

- a. Develop an approach for modification or correction of all deficiencies.
- b. Upon approval of a documented approach, the contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures requirements is demonstrated.

4.0 REPORTS

4.1 Parts Usage Data Report. The contractor shall provide a Parts Usage Data Report for every twenty vehicles produced. This report shall be in the Contractors format and as a minimum, list by nomenclature, National Stock Number (NSN), Part Number, price and quantity of all parts replaced. The report shall be provided to Commander (Code 835-1), Marine Corps Logistics Bases, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320. Appendix A is provided as a sample.

4.2 Initial Inspection Checklist/Road Test and Final Inspection Checklist. The contractor shall complete the Road Test and Final Inspection Checklist for each LVS MK48 repaired. These documents shall be available during final acceptance testing. One copy of each document shall be provided to Commander (Code 835-1), Marine Corps Logistics Bases, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, after final acceptance of the LVS MK48.

	Fig #	Item	Kit No.	FSC	NSN	Part #	Qty	Unit \$	Total \$	Replcd %	Replace	Used
TM 2320-24P/14B												
Cab Assm												
Cab												
(Sheetmetal)	210	1	01MRP2801	2510	012332569	123616RU	1	\$8,872.31	\$8,872.31			
Visor	209	1	00MRPXXX	2540	011527909	840	2	\$15.89	\$31.78			
Step Bracket	209	22	01MRP2549	2540	011513844	1325890	2	\$36.35	\$72.70			
Steps, Cab (A1)	209	30	1759650W	5440	013575699	1759650 W	2	\$46.90	\$93.80			
Rifle Racks (M.I.)(A1)	312	52		1005	012661233	5705590	1	\$68.87	\$68.87			
Rack, Storage	312	54		1095	007637348	11630529	2	\$19.76	\$39.52			
Cover, Access Assm, LH			01MRP2547	5342	012502237	128836C W	1	\$28.49	\$28.49			
Auxiliary Panel Assm			01MRP2547	5340	012479444	1340080 W	1	\$56.24	\$56.24			
Access Cover Assm, RH			01MRP2547		012484553	129200BU	1	\$82.28	\$82.28			
Panel, Top			01MRP2547		012417405	1340100W	1	\$231.71	\$231.71			
Seat and Frame Assy (Driver)			00MRPXXX		011548406	130726	1	\$311.42	\$311.42			
Seat Cushions	222	2			011538448	130723	1	\$38.54	\$38.54			
Upholstery, Seat Back	222	3		2540	012642024	130724	1	\$83.52	\$83.52			
Belts			00MRPXXX	5340	012366311	1429570	1	\$296.15	\$296.15			
3 Point Seat Belts (A1)	222	21			013606538	F08900	1	\$82.93	\$82.93			
Absorber, Shock	222	9		2510	011538450	707774	1	\$48.55	\$48.55			
Support, Seat	209	37	01MRP2636	2540	011554155	1349180	1	\$57.15	\$57.15			
Seat and Frame Assy (Pass, Fold Down)			00MRPXXX	2540	012424866	131026	1	\$432.81	\$432.81			
Seat Cushions	222	2			011538448	130723	1	\$38.54	\$38.54			
Belts			00MRPXXX	5340	012366311	1429570	1	\$296.15	\$296.15			
3 Point Seat Belts (A1)	222	21			013606538	F08900	1	\$82.93	\$82.93			
Support, Seat	209	37	01MRP2636	2540	011554155	1349180	1	\$57.15	\$57.15			
Instrument Panel Assembly			01MRP2445									
Weldment, Dash Panel			01MRP2700		01A138795	1341930W	1	?	?			
Harness, Panel				5895	012475725	1500380W	1	\$43.67	\$43.67			
Plate, Side Panel	75	11				1345630	1	?	?			
Gages			01MRP2701						\$0.00			
Gage, Oil Pressure	73	4		6620	011428277	0634114	1	\$17.21	\$17.21			
Gage, Air Pressure	313	1		6685	011218017	140490	1	\$49.35	\$49.35			
Gage, Fuel	73	9		6680	011312551	0633915	1	\$17.35	\$17.35			
Gage, Water Temp	73	14		6620	011319620	0634317	1	\$17.14	\$17.14			
Gage, Transmission Oil Temp	73	20		6685	011324637	0634914	1	\$20.91	\$20.91			
Gage, Voltmeter	73	25		6625	011027599	0635215	1	\$14.11	\$14.11			
Gage, Hydraulic Oil Temp	73	30		6620	012443425	0697263	1	\$25.01	\$25.01			
Tachometer	73	36		6680	011319693	635K147711	1	\$96.06	\$96.06			
Speedometer	73	8		6680	012674356	47828	1	\$114.03	\$114.03			
Warning Lights									\$0.00			

Light, Warning Green	73	57	6210	010531290	1053628	3	\$23.07	\$69.21		
Light, Warning	75	2	6210	012064754	1053621	2	\$20.74	\$41.48		
Shield, Light	75	1	6210	010549460	1215	3	\$3.05	\$9.15		
Buzzer Warning System	75	29	6350	001024210	SC628	1	\$86.77	\$86.77		
Low Air Pressure Alarm	73	77	6350	010524043	443724	1		\$0.00		
Drive Line Lockup Valve	161	55	4820	010505584	285402	1	\$63.92	\$63.92		
Air Brake Valve(Air Control)	169	1	01MRP2642	011517984	118569	1	\$162.69	\$162.69		
Air Restrictor Indicator	33	6	2940	011544713	RAXX007388	1	\$18.18	\$18.18		

(1 Data Item)

Form Approved
OMB No. 1704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ Other XXX
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D. SYSTEM/ITEM Logistics Vehicle System, MK-48	E. CONTRACT/PR No.	F. CONTRACTOR
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1. DATA ITEM No.	2. TITLE OF DATA ITEM	3. SUBTITLE
A001	Request for Deviation (RFD)	Configuration Management

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN- 80640C	Paragraph 3.3	MARCORLOGBASES 851-2

7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQ	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION		
8. APP CODE	A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
					Draft	FINAL
						Reg
						Repro

16. REMARKS	MCI BA 851-2	0	1	0
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Contractor format is authorized and shall be submitted in .doc and .pdf format.

RFDs will be reviewed and disposition determined within 30 working days upon receipt by the government.

RFDs shall be transmitted via e-mail to the following address:
mbmatcomconfigmngmnt@matcom.usmc.mil

Distribution Statement A: Approved for public release, distribution is unlimited.

17. PRICE GROUP

18. ESTIMATED
TOTAL PRICE

G. PREPARED BY: <i>Paul P. Patten</i>	H. DATE <i>10/10/00</i>	I. APPROVED BY: <i>J. Corley</i>	J. DATE <i>300500</i>
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(1 Data Item)

Form Approved
OMB No. 1704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:	TDP	TM	Other	XXX

D. SYSTEM/ITEM Logistics Vehicle System, MK-48	E. CONTRACT/PR No.	F. CONTRACTOR
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1. DATA ITEM No.	2. TITLE OF DATA ITEM	3. SUBTITLE
A002	Request for Waiver (RFW)	Configuration Management

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-80641B	Paragraph 3.3	MARCORLOGBASES 851-2

7. DD 250 REQ. L1	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION See BIK 16	14. DISTRIBUTION b Copies
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8. APP CODE	A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	<table border="1"> <tr> <td rowspan="2">Draft</td> <td colspan="2">FINAL</td> </tr> <tr> <td>Reg</td> <td>Repro</td> </tr> </table>	Draft	FINAL		Reg	Repro
Draft	FINAL									
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16 REMARKS	MCI BA 851-2	0	1	0
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TOTAL PRICE

G. PREPARED BY: <i>/ /</i>		H. DATE	I. APPROVED BY:	J. DATE
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Capt 1st Lt
 SEP 21 2000
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Page 1 of 1 Pages

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